

Amendments to the Claims

Claims 1-10 (withdrawn).

11. (currently amended) An electrode coil for a HID lamp, comprising:  
a tungsten core with a free end adapted to be placed in a HID tube;  
a first coil on said tungsten core, said first coil comprising a first wire wrapped in a first direction with each turn of said first wire touching another turn of said first wire, said first coil having an exterior surface with a helical groove therein, said free end of said tungsten core being adjacent to but spaced from a corresponding end of said first coil, an exterior of said tungsten core touching an interior of said first coil; and  
a second coil on said first coil, said second coil comprising a second wire wrapped in the first direction directly on said first wire in said helical groove whereby the interior of said second coil touches the exterior of said first coil, a first turn of said second wire touching a first turn of said first wire and a last turn of said second wire touching a last turn of said first wire, each turn of said second wire touching two turns of said first wire 36.
12. (original) The electrode of claim 11, wherein said second wire is the same length as said helical groove and entirely within said helical groove.
13. (original) The electrode of claim 11, wherein said first wire is affixed to said tungsten core and said second wire is affixed to said first wire.
14. (original) The electrode of claim 11, wherein each turn of said second wire touches another turn of said second wire.
15. (original) The electrode of claim 11, wherein said first and second wires comprise tungsten wires with the same diameter.